

#2-3-25-02-28

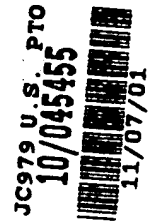
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PATENT

Docket No. 520373.90239

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tsurumaki  
Appl. No.: ---  
Filed: November 7, 2001  
For: Golf Club And Method For Manufacturing  
The Same  
Art Unit: ---



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INFORMATION DISCLOSURE STATEMENT

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Commissioner for Patents  
Washington, D.C. 20231

Sir:

Please enter the following information in the file of the above application for consideration during examination of this application. Attached is a Form PTO-1449 which lists several items of prior art which was brought to the attention of the undersigned by the applicant. A copy of these items are submitted herewith.

Japanese Un-Examined Patent Publication No. 11-19254 discloses a conventional golf club, called a metal wood, where a shaft is fitted to a head made by combining a plurality of metal pieces such as a face shell, a sole and peripheral side shell and a crown shell.

Japanese Un-Examined Patent Publication Number 8-155062 discloses a conventional method for manufacturing a golf club, in which a whole or at least a part of respective outside and/or inside surfaces of the sheet materials are subjected to chemical grinding to thereby adjust the weight and thickness of materials used for a hollow club head, as disclosed in paragraph number

0008 of the same publication. However, when titanium undergoes pickling, it absorbs hydrogen so that it becomes brittle. Particularly, beta type titanium alloy which is now commonly used for the material of heads has a greater tendency to become brittle.

Japanese Un-Examined Patent Publication Number 61-232875 discloses a conventional method for manufacturing a golf club, using a blast method where abrasive (blast material) is blasted to a surface of a material, using compressed air. Specifically, this publication discloses the forming of a marking on a head by blasting abrasive grains with a masking layer being in close contact with a head surface to be marked (see lines 2 to 6, lower left column, page 2). However, it is silent with any technical idea to adjust the thickness of respective shells, by a blast.

Japanese Registered Patent Publication Number 2865127 discloses a method of manufacturing a golf club head with at least a face and a sole thereof being formed from a magnesium group alloy, where the surface of the magnesium group alloy is washed by a blast (see paragraph number 0005). However, it is silent with any technical idea to adjust the thickness of respective shells, by a blast.

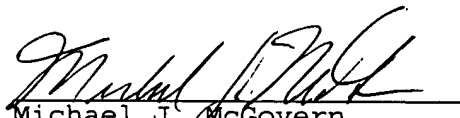
Japanese Un-Examined Patent Publication Number 9-182818 discloses a golf club and manufacturing method thereof, particularly disclosing the forming of fine irregularities at least on a face of a head by a sand blast process for the like (see paragraph number 0005). However, it is also silent with any technical idea to adjust the thickness of respective shells, by a blast.

It is hoped that this submission of prior art will assist the examination.

Respectfully submitted,

Dated: November 7, 2001

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